SBR No: 10/26-9-17

BR No: 31/28-09-17

M. A. R. 57 (Rule 116)
Measurement Book
No. B

Serial No. I st and Final Bill

Name of Work Installation and construction of RO plants in ward no.8. Kadigahalli From To

Name of Contractor of nature of Agency Sri. R. Vasanth

Date of commencement of work

354513

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Est. cost:- Rs. 15,00,000/- Job code no:- 008-16-000028 AS/NO:- AS/CE(YNK)/75/2015-16, dt: 14/12/2015 TS/NO:- EE/(BTP)/235/2015-16, dt: 14/12/2015. work order no:- EE/BBMP/EE/BTP/00/269/2016-17, dt: 17.18 Date of commencement:- Date of completion:-					31-3-17 09/01/2017	
1)	Earthwork excavation for foundation of buildings, culvert water supply, sanitary line and electrical conduits, either in PTS or in trenches, 1.5m						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and above in width, in including trueing the bottom and sides of pits and clear from edges of excavation and of clods, complete as the specifications.					ordinary soil not exceeding 1.5m, in depth bottom 1.5m, in depth including trueing the and trueing, stacking the excavated soil lead upto 50m. after breaking	
	= Qty vide Premeasurement ref. Page No: 35 & 36						
						20.00 m³ @ Rs. 190.00/cum	Rs. 3876.00
2)	providing and laying in position plain cement concrete of mix 1:4:8 with 40 mm cement aggregate @ 180 kgs coarse aggregate @ 0.85 cum and fine aggregate @ 0.42 cum, machine mixed concrete laid in layers not exceeding 15cm. thick, well consolidated in foundation and plinth, including cost of all materials, labour, hire of						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	
	making cuing, complete = Qty	
3)	providing and constructing with cement mortar 1:6, b hand shall be two m cuing complete = Rs = Qty	

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...ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
...ht not exceeding 1.5m, in depth ... in depth including draying the ... stacking the excavated soil ... lead upto 50m. after breaking			
...ent, ref TMB ... 354570			
...Rs. 190.00/cum		Rs. 3876.00	
...m cum concrete of mix 1:4:8 ...ab dam size grade granite metal ...gate @ 0.57 cum, machine mixed ...cum. Rate, item corrected in ...of all materials. labour HOM of			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354514

...erial No. .....
...ame of Work ..... From..... To.....
...ame of Contractor of nature of Agency .....
...ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	machine cum, complete as per specification. = Qty vide premeasurement ref TMB Page no : 354570/2						
		7.60			1	Qty 5000.00/cum	Rs. 38000.00
3)	Providing and constructing grade/ trap/ bazaar side stone ~~with~~ cum mortar 1:6, ~~hand~~ stone hand dressed in cum ~~mortar~~ of ~~not~~ more than 20 cm thick, ~~cum~~ complete as per specification = Qty vide premeasurement ref TMB Page no = 354571						

...mortar in foundation ...m thick, in ... of materials, labour

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		7.38 m³			@ Rs. 4300.00/cum	Rs.	31734.00
4)	providing and constructing gratis / trap / bases six stone masonry in cement mortar 1:6, edges of stone clipped dressed in coarse not less than 15 cm, high, bed stone to have min. offset in each course including cost of materials, labour, cutg. complete as per specification = Qty vide premeasurement ref TOD page no: 35457						
		4.43 m³			@ Rs. 5300.00/cum	Rs.	23479.00
5)	Filling available excavated earth (excluding rock) in side of foundation upto plinth in layers not exceeding 20 cm. in depth compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all materials complete as per specification						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	
	= Qty	
6)	providing and laying in cum @ 330 kgs, with 20 0.878 cum and trim ggrg IS 9103-1999 reinforced exceeding 15 cm. thick. with band for roof slab.	

	Contents	Reference to last Measurement
	7	8
cum	Rft.	31734.00
eels six steel m-pany steel clips dwd in two m. apart in each complete as per specifi		
TOTAL		
71		
.00/cum	Rft.	23479.00
ocks) in side of foundation depth compacting each lead upto 50 m. and late complete as per specifi		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354515

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	= Qty vide Measurements at Page No: 354511/2						
		20.40			m³ @ Rft. 150.00/cum	Rft. 3060.00	
6	Providing and laying in position reinforced cement concrete of design mix M20 with 20 mm graded stone aggregate @ 320 kgs, with normal Portland cement @ 0.878 cum and fine aggregate @ 0.459 cum with superplasticizer @ 3% of cement content to IS 9103-1999 reaching characteristic compressive strength - 20MPa, workability 15 cm. thereby vibrated mixed, concrete laid in layers not exceeding 15 cm. thereby vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retainings, walls, columns (any thickness)						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including attached plasters, column, piers, abutments pillars, posts, struts, buttress, string or lacing course, parapets, coping bed blocks anchor, blocks, plain, coloured, etc. reinforced etc. including cost of all materials, labour, hoisting machine, complete as per specification.						
	= Qty vide Measurements of TMB Page No: 35/15 H/2						
		1	1.48			1.48 m³ @ Rs. 6600.00/cum	Rs. 9768.00
7)	providing TMT steel reinforcements for RCC work including straightening cutting bending, hooking, placing in position, lapping and/or welding where required. tying with binding wire and anchoring to the adjoining members where necessary complete as per design (left, hook and overlap shall not be measured and paid) to cost of materials, labour, Hire of machine. complete as per						

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Date	Full description, etc, of work	Number
	2	3
	specification = Qty vide	1.48
8)	providing and removing cu form work for vertical mate pillars, beams, plinth and st as per specification = Qty	6.56

ENT BOOK

Dimensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8

prem. abutments pillars, posts, coping, parapets, coping bed blocks, ...ellent etc. including cost of ...ing, complete as the ...ecification.

...sements ref TMB
...e No: 354571/2
...Rft. 6600.00/cum Rs. 9768.00

for RCC ... including straightening, ...apping and/or welding reinforcement ...ncluding to the adjoining ...ement. (Left, ... and waiting ... be ... Hire of ... Complete as ...

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354516

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...ame of Work ..... From..... To.....
...ame of Contractor of nature of Agency .....
...ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number 3	Length 4	Breadth 5	Depth 6	7	8
	Specification	= Qty vide Permanent ref TMB Page No: 354572					
		1.48 Sqm			Rft 6800.00	Rs.	10064.00
8/	Providing and removing cement ... shuttering, strutting, propping etc; and removing from ... for ... pilasters, beams, ... and ... for ... Specification	= Qty vide Permanent ref TMB Page No: 354572					
		6.56 m²			Rft ~~680.00~~/sqm 360	Rs.	1968 1837.00

...ement ... including attached ... materials, labour complete ...

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
9)	Providing and fixing special, make glazed vitrified tiles/ of approved make, quality, sub colour of special, type, sized 600x600x10 mm thick fixed on existing flooring with required, internal and curing adhesive for floors and skirting as stairs etc. complete.						
	For steps.	1x1	4.50	3.40	=	15.30	
		3x1	3.40	0.20	=	2.04	
		3x1	3.40	0.20	=	2.04	
						19.38 m²	
						Sft. 1100.00/ sqm	Rs. 21318.00
10)	Supplying and wiring adopting loop system in existing PVC capping with 1100V grade insulated 2 x 1.5 Sq. mm copper conductor flexible, multistrand cable, confirming to the ISI type sp control switch shall be fixed on the existing PVC conduit/ capping FRS PVC with a 6 Amp. flush plastic sheet/						

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Date	Full description, etc, of work	Number
1	2	3
	gang box, the other end of the loop length in a group / PVC	
	Group. A b) making Point Points to each leds via Switch	2x1
11)	(c) Lang Points above leds via switch.	2x1

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
		fixing tiles (granite tiles)	
		600×600×10 mm thick fixed	
		in floors and skirting ab	
		shelf:	
	=	15.30	
	=	2.04	
	=	2.04	
		19.38 m²	
		Rs. 2318.00	
		100.00/ sqm	
		existing PVC conduit/ copper	
		flexible, multistrand FRLS PVC	
		to the GSP with a 6 Amp. flush	
		on the existing plastic board/	

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Measurement Book

No. B

354517

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	gang box, the other end of the wires shall be terminated with ferrules						
	loop length in a wood / PVC round block, complete for each outlet.						
	Group. A b) main points above 3 mts upto 6 mts from topping					= 2.00	
	Points to each load via switch.	2×1				2.00 points	
			Rft.	250.00		Rs. 500.00	
(11)	(c) Long points above 6 mts upto 10 mts from topping points to each						
	load via switch.	2×1				= 2.00	
						2.00 Points	
			Rft	350.00		Rs 700.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
12)	Supplying and fixing mounting plank, made of teak wooden box without front 12 mm thick wood, after deep groove cutting, finishing with wiping cement plastic complete (1.6.5) 4" × 4" × 3" (101 × 101 × 76 mm)	12 × 1				= 12.0 12.0 each	
						Rs. 60.0	Rs. 720.0
13)	(1.6.6) 12" × 12" × 3" (300 × 300 × 76 mm)	6 × 1				= 6.0 6.0 each	
						Rs. 110.0	Rs. 660.0
14)	10" × 7" × 3" (254 × 178 × 76 mm)						

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Date	Full description, etc, of work
1	2
15)	Supplying 4 mm switch, regulator eg. screw.
16)	Extra for groov

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354518

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ate	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		6×1				= 6.00	
						6.00 Each	
							Rs. 480.00
15)	Supplying 4mm thick Plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box with M.F. screws.						
		1×1	6666.66			= 6666.66	
						6666.66 Sq. cm	
							Rs. 1333.00
16)	Extra for groove cutting in brick wall / CC floor, to the suitable depth						

Depth 6	Contents 7	Reference to last Measurement 8
box with out fram wood, with dee Plastic complete		
	= 12.00	
	12.00 Each	
		Rs. 720.00
	= 6.00	
	6.00 Each	
		Rs. 660.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	For concealing of conduit/ GI pipe and plastering, finishing upto wall sustain complete. upto 50 mm conduit in brick wall	1×1	10.0			= 10.0 / 10.0 mtr	
						Rate 20.0/mtr	Rs. 200.0
17)	supplying heavy gauge PVC conduit pipe 19/20 mm dia 2 mm thick with suitable size bend, metal junction boxes, adhering plate etc., by groove cutting in the wall and fixing by bracing U or I hooks at cement plastering upto the wall, sustain and run with 18 swg GI fish wire run throughout the conduit column wise complete.	1×1	10.0			= 10.0 / 10.0 mtr	
						Rate 50.0/mtr	Rs. 500.0

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ate of commencement of work .....

Date	Full description, etc, of work	Nu
	2	
18)	Supplying and fixing wiring with 60 Q/ 230	
19)	Supplying Patti type fl watt, fluorescent tub complete with HF electron mounted on double fold th AC. supply including TS	

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
d plastering finishing upto			
ondwork in brick wall			
		= 10.00	
		10.00 mtr	
20.00/mtr		Rs. 200.00	
ible pipe 19/20 mm dia 2 mm			
d junction boxes, adhering pasto			
all and fixing by bracing or			
the wall, buried and run with			
ghout the conduct column			
		= 10.00	
		10.00 mtr	
Rs. 50.00/mtr		Rs. 500.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B
354519

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
18	Supplying and fixing wiring with 60 Q/ 230 volts PBBC/ Bakelite straight or slant batten holder and	2×1				= 2.00	
						2.00 each	
						Rs. 160.00	
						Rs 80.00	
19	Supplying Patti type fluorescent tube light fitting of 2'- suitable, for 14 watt fluorescent tube fitting, made out of m.s sheet and stove enamelled with HF electronic ballast, locking type brass, contact holder - mounted on double told type sheet box fully wired for use on 230 volts AC. supply including TS lamp.	2×1				= 2.00	
						2.00 each	
						Rs 1000.00	
						Rs 500.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
20)	Wiring for lighting/power circuits using 650 gr. FRLS PVC insulated 1100V grade, multistrand copper wired conductor run in single core wire in open or concealed system of wiring with separate CC of 3 strand 1.5 sqmm. IS-694: 1990 & confirming to GSP	1x1	5.00			= 5.00 5.0 mtr	
				Rs. 20.00/mtr		Rs 100.00	
21)	Supplying and fixing cast aluminium round or oblong type bulk head-cum-shelter with GI wire guard. GLS lamp.	4x1				60/100 watts 230V = 4.00 4.00 Each	
				Rs 800.00		Rs 3200.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
22)	Supplying, fixing, and other equipments, 8 pile 2.5 mts long by proportion of Sand depth. the connection through GR wire of 12 mm dia bolt, nu have 16 thugh lidy.
23)	Providing and

BOOK

ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
ing one of FRLS PVC insulated round conductor multistrand single core copper wiring with specified of Ground A. 1.5 sqmm.		= 5.00	
		5.0 mtr	
.20.00/mtr		@ 100.00	
d or oblong type bulk mud- cover unit		60/100 capacity 230V	
		= 4.00	
		4.00 Each	
@ 800.00		@ 3200.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354520

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
22	Supplying, fixing, wiring, earth electrode for grounding Conduit I.C conduit and other equipments on the multi board using 40mm dia 2.90mm thick GI pipe 2.5mts long buried in a pit ... the pit should be filled with equal proportions of salt and charcoal 150mm all-round the pipe to complete depth. the connection from the pipe to the conduit shall be as per IS specifications 7.3.3 & to be established through GR wire of size as per IS specifications & IS 732 using 12mm dia bolt, nut washers and clamp with clo:. the pipe shall have 16 thread tidy. of 12mm dia.	1				= 1.00	
						1.00 No	
				@	2800.00	@ 2800.00	
23	Providing and construction			of Roof, Panel Cabin MS materials			

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Vertical 50 x 100 mm thick steel angular tube 50x 50 mm sandwich pvc panel density : 40 kg/m³ for both side GI colour coated sheet with PUF panel density : 40 kg/m³ (polyurethane foam) sealant etc., door of size 1.8 x 2.0 m of aluminium powder coated window of size. 1.00 x 2.00 m 1 no of structural glazing (fixed and sliding) on side slope as per Electrical drawing & specification etc., complete.						
		1				= 1.00 / 1.00 each	
						Rft 393450.00	Rft. 393450.00
	Verified [illegible] 10/09						
	24) Storage Drinking / Portable water : 5000 Litres Capacity.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Certificate:- * work done as per [illegible] * All debris cleared * no deductions in

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone
Bangalore

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Depth 6	Contents 7	Reference to last Measurement 8
	50 to 100 mm thick roof panel @ 30 mm wall panel @ 30 mm (Polyurethane foam) with colour coated aluminium powder coated structural glazing (fixed and sliding type etc.)	
	= 1.00	
3450.00	1.00 each Rs. 393450.00	

Canteen Capacity.

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	CDR Certificate:- * Work done satisfactorily * All debries cleared from the work spot. * No Pedestrian inconvenience to the above works. Assistant Executive Engineer Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.	1×1				= 1.00 1.00 No Rs. 992543.00	Rs. 992543.00 Total Rs. 1541482.00 Rs - 1541613-00

24/4/17
2/5/17

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						Total Rs. 1541613-00	
						IT 15416-00	
						CGST - 15416-00	
						SGST - 15416-00	
						Cess - 15416-00	
						CBF - 1542-00	
						LR 4625-00	
						Adj. 67831-00	
						Chq. 1473782-00	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 1541613-00

ಗಳಗ್ಳು ಪಾಸು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ 67831-00

ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 1473782-00

ರೂ Rs Fourteen lakh Seventy three thousand seven hundred eighty two Only

ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು
ವ್ಯಾಪಾರಾಯುಕ್ತರ ಕಾರ್ಯಾಲಯ
ಬೃ.ಬೆ.ಮ.ಪಾ

ಕಾ.ಮಾ.ಲ. 26/07
ವ್ಯಾಪಾರ ಸಹಾಯಕರು ಪ
ಬೃ.ಪ.ಸ.ಪಾ

Serial No. .....

Name of Work ..... F

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Numb
1	2	3